AUTODOC CLUB

How to change front brake discs on **BMW E92** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW 3 Touring (E91) 325i 3.0, BMW X1 (E84) xDrive 28 i, BMW 3 Saloon (E90) 320d xDrive 2.0, BMW 3 Convertible (E93) 325d 3.0, BMW 3 Saloon (E90) 325i 2.5, BMW 3 Saloon (E90) 330i 3.0, BMW 3 Saloon (E90) 320d 2.0, BMW 1 Hatchback (E81) 130i 3.0, BMW 3 Touring (E91) 325i 2.5, BMW 3 Touring (E91) 330i 3.0, BMW 3 Touring (E91) 320d 2.0, BMW 3 Saloon (E90) 330d 3.0, BMW 3 Touring (E91) 330d 3.0, BMW 3 Saloon (E90) 325xi 2.5, BMW 3 Saloon (E90) 330xi 3.0, (+ 47)

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW E92. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Anti-squeal paste
- Copper grease
- HEX bit No.H5.
- HEX bit No.H7.
- Drive socket # 17
- Wheel impact socket #17
- Brake caliper wind back tool
- Ratchet wrench
- Torque wrench
- Tap wrench
- Impact screwdriver
- Crow bar
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: brake discs – BMW E92. Tip from AUTODOC experts:

- Replace the brake disks on the car BMW E92 in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- All work should be done with the engine stopped.

REPLACEMENT: BRAKE DISCS – BMW E92. RECOMMENDED SEQUENCE OF STEPS:

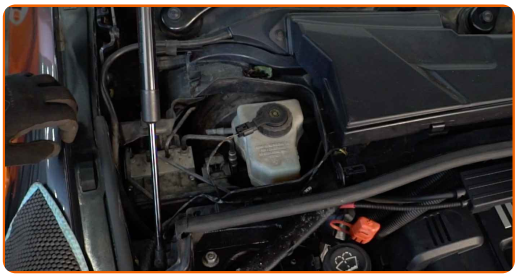
1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Remove the wiper arm cover.

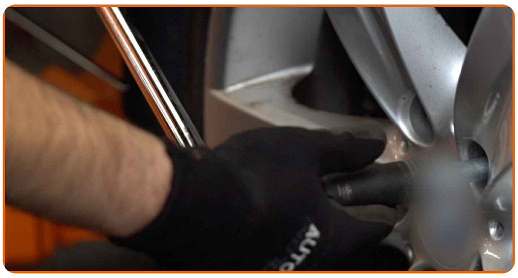


4 Unscrew the brake fluid reservoir cap.



5 Secure the wheels with chocks.

6 Loosen the wheel mounting bolts. Use wheel impact socket #17.



7 Raise the front of the car and secure on supports.



8

Unscrew the wheel bolts.



Replacement: brake discs – BMW E92. Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

9

Remove the wheel.



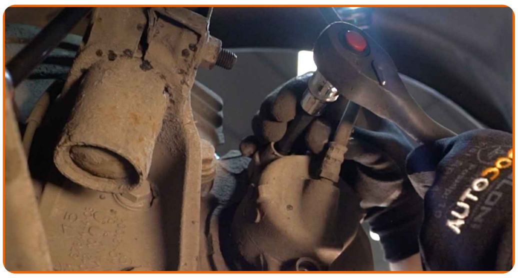
10

Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.



11

Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



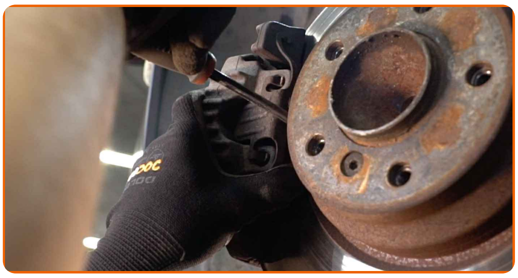
12

Spread the brake pads. Use a crowbar.



13

Detach the brake caliper retaining spring. Use a crowbar.



14

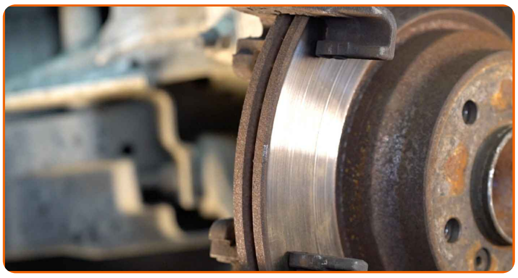
Remove the brake caliper.



Replacement: brake discs – BMW E92. Professionals recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

15 Remove the brake pads.



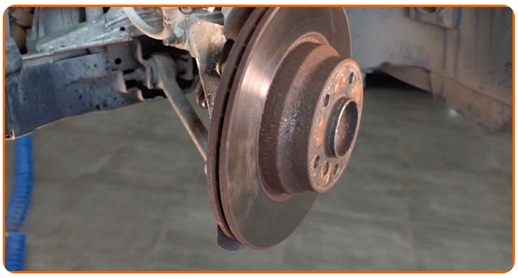
16 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



17 Unscrew the caliper bracket fastening. Use a drive socket #17. Use a tap wrench.



18 Remove the caliper bracket.



19 Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.



20 Unscrew the brake disc fastening. Use HEX No.H5. Use an impact screwdriver.



21 Remove the brake disc.



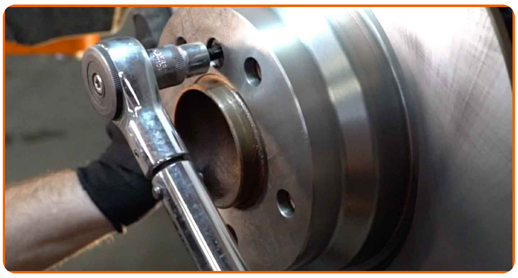
22 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



23 Install the brake disc.



24 Tighten the brake disc fastening. Use HEX No.H5. Use a torque wrench. Tighten it to 16 Nm torque.



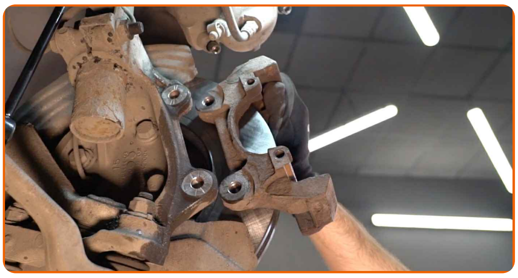
25 Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake discs – BMW E92. After applying the spray, wait a few minutes.

26 Install the brake caliper bracket.



27 Tighten the brake caliper bracket. Use a drive socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



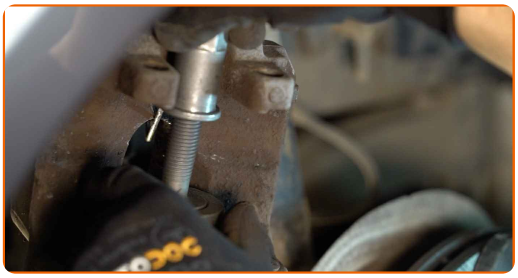
28 Treat the brake caliper piston. Use a brake cleaner.



Replacement: brake discs – BMW E92. AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

29 Press in the brake caliper piston. Use brake caliper wind back tool.



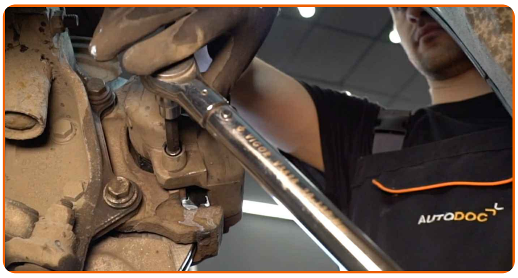
30 Treat the brake pads in the area where their surface comes into contact with the brake caliper bracket. Use anti-squeal paste.

31 Install the brake pads.



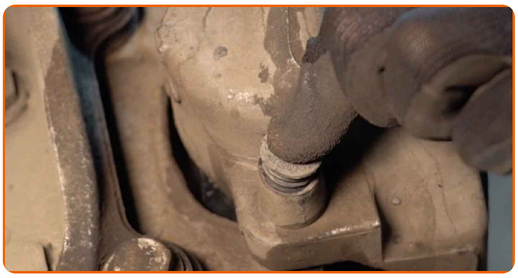
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Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



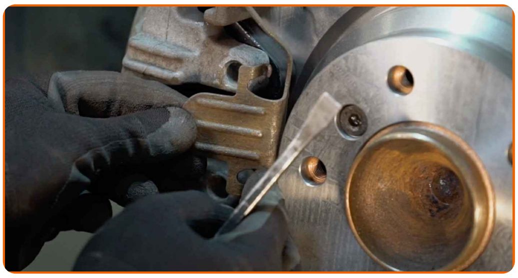
33

Install the dust boot caps of the brake caliper guide pins.



34

Install the brake caliper retaining spring.



35

Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



36

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake discs – BMW E92. After applying the spray, wait a few minutes.

37 Install the wheel.



Replacement: brake discs – BMW E92. Tip from AUTODOC:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

38 Screw in the wheel bolts. Use wheel impact socket #17.



39 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.



40 Remove the jacks and chocks.

AUTODOC recommends:

- BMW E92 – Press the brake pedal several times with the engine shut down until you feel the resistance built up.
- Check the brake fluid level in the expansion tank and refill if necessary.

41 Tighten the brake fluid reservoir cap.



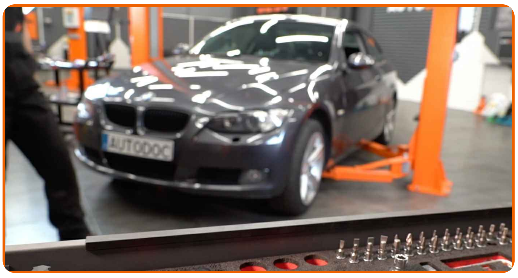
42 Install the wiper arm cover.



43 Remove the fender protection cover.

44

Close the hood.

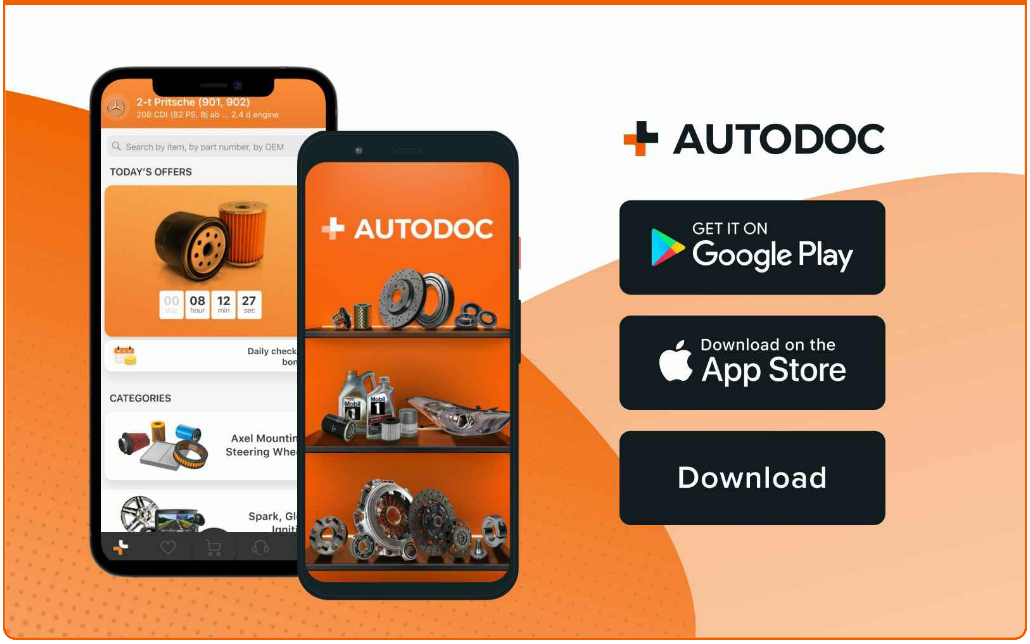


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